

a sensor operative to sense the action performed on said at least one input zone, and to generate signals in response to said action, said sensor being an acoustic sensor; and

A2 a processor in communication with said sensor operative to process said signals for performing an operation associated with said at least one input zone.

13 17. (Amended) A method for data input comprising:

generating an optical image of a data input device, said image comprising at least one input zone actuable by an action performed thereon by a user;

performing an action on said at least one input zone;

A3 sensing the action performed on said at least one input zone, said sensing comprising:

detecting light reflected from an object within a silhouette of said image; and

analyzing a reflection of said light to determine a spatial position of the object;

generating signals in response to said action; and

processing said signals for performing an operation associated with said at least one input zone.

Kindly add the following new claims:

31 36. A method according to claim 13 and wherein said sensing also comprises providing a light beam emanating from a light source.

32 37. A method according to claim 31 and wherein said sensing also comprises analyzing an angle of said light beam to determine a spatial position of the object.

33 38. A method for data input comprising:  
generating an optical image of a data input device, said image comprising at least one input zone actuable by an action performed thereon by a user;

performing an action on said at least one input zone;

A4 sensing the action performed on said at least one input zone, said sensing comprising:

providing a non-visible light beam emanating from a non-visible-light source;

detecting an image of said non-visible light impinging upon an object; and

analyzing said image of said non-visible light to determine a spatial position of the

object;

generating signals in response to said action; and

processing said signals for performing an operation associated with said at least one input zone.

34 39. A method according to claim 33 and wherein said step of analyzing also comprises analyzing an angle of said light beam to determine a spatial position of the object.

<sup>35</sup>~~40~~. The method according to claim <sup>33</sup>~~38~~ wherein the step of analyzing also comprises analyzing an angle of said light beam and a time for the beam to be reflected back from said object to a reference to determine a spatial position of the object.

<sup>36</sup>~~41~~. A data input device comprising:  
an optically generated image of a data input device, said image comprising at least one input zone actuatable by an action performed thereon by a user;

a sensor operative to sense the action performed on said at least one input zone, and to generate signals in response to said action, said sensor being operative to:

detect light reflected from an object within a silhouette of said image; and

analyze a reflection of said light to determine a spatial position of the object; and

a processor in communication with said sensor operative to process said signals for performing an operation associated with said at least one input zone.

<sup>37</sup>~~42~~. The device according to claim <sup>36</sup>~~41~~ and further comprising a light source which generates a light beam, and beam-moving apparatus which moves said light beam to generate said optically generated image of said data input device.

<sup>38</sup>~~43~~. The device according to claim <sup>37</sup>~~42~~ wherein said beam-moving apparatus comprises a mirror arranged to reflect said light beam.

<sup>39</sup>~~44~~. The device according to claim <sup>38</sup>~~43~~ and further comprising an actuator operatively connected to said mirror, wherein said actuator moves said mirror to reflect said light beam to form at least a two-dimensional image of said data input device.

<sup>40</sup>~~45~~. The device according to claim <sup>37</sup>~~42~~ wherein said beam-moving apparatus comprises a scanner arranged to scan said light beam, and an actuator operatively connected to said scanner, wherein said actuator moves said scanner to scan said light beam to form at least a two-dimensional image of said data input device.

<sup>41</sup>~~46~~. The device according to claim <sup>36</sup>~~41~~ wherein said data input device comprises a key of a keyboard.

<sup>42</sup>~~47~~. The device according to claim <sup>36</sup>~~41~~ wherein said data input device comprises a keyboard.

<sup>43</sup>~~48~~. The device according to claim <sup>36</sup>~~41~~ wherein said data input device comprises a mouse with at least one input button.

<sup>44</sup>~~49~~. The device according to claim <sup>36</sup>~~41~~ wherein said data input device comprises a key of a touch pad.

<sup>45</sup>  
~~50.~~ The device according to claim <sup>34</sup>~~41~~ and wherein said sensor analyzes an angle of said light to determine a spatial position of the object.

<sup>46</sup>  
~~51.~~ The device according to claim <sup>36</sup>~~41~~ wherein said sensor analyzes an angle of said light and a time for said light to be reflected back from said object to a reference to determine a spatial position of the object.

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